COSPACE RESCUE 2016



Installation Guide for SSOE Laptop



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The CoSpace Rescue Simulator does not support MAC OS.

In order to run CoSpace Rescue Simulator 2016 on Singapore SSOE laptop, you need to

- 1. Install Microsoft Robotics Developer Studio R4
- 2. Reserve a port
- 3. Install CoSpace Rescue Simulator 2016
- 4. Apply for a serial code for simulator activation





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1. MRDS R4 INSTALLATION

- Step1: Download the Microsoft Robotics Developer Studio R4 https://www.microsoft.com/robotics/
- Step2: Login with TA account (with local admin rights and internet access)
 - 2.1 Install MRDS R4 in D:\Microsoft Robotics Dev Studio 4

Microsoft Robotics Developer Studio 4 15/3/2014 4:29 PM Application	296,582 KB
Right click on the "Microsoft Robotics Developer Studio R4" and select "Run as administrator"	
InstallShield Wizard Image: Stall Shield Wizard Image: Stall	
Status Requirement Pending Microsoft CCR and DSS Runtime Pending Microsoft .NET Framework 4.0 Pending Microsoft XNA Framework 4.0 Pending NVIDIA PhysX System Software	
Fig. 1: MRDS R4 Installation	
Microsoft Robotics Developer Studio 4 - InstallShield Wizard	×
Setup Type Choose the setup type that best suits your needs.)
Please select a setup type.	
Complete All program features will be installed. (Requires the most disk space.)	
Choose which program features you want installed and where they will be installed. Recommended for advanced users.	
InstallShield	

Fig. 2: Choose Custom installation



Microsoft Robotics Developer Studio 4 - InstallShield Wizard Destination Folder Click Next to install to this folder, or click Change to install to a different folder.	
Install Microsoft Robotics Developer Studio 4 to: C:\Users\CoSpace\Microsoft Robotics Dev Studio 4\	
InstallShield < <u>B</u> ack Next > Cancel	

Fig. 3: Change installation directory

🖟 Microsoft Robotics Developer Studio 4 - InstallShield Wizard	×
Change Current Destination Folder	
Browse to the destination folder.	
Look in:	
🔺 Microsoft Robotics Dev Studio 4 🗸	E ř
Eolder name:	
D: \Microsoft Robotics Dev Studio 4\	
InstallShield	
ОК	Cancel

Fig. 4: Install the MRDS 4 in D:\



🖟 Microsof	t Robotics Developer Studio 4 - InstallShield Wizard	×	
Destinatio	on Folder		
Click Nex	t to install to this folder, or click Change to install to a different folder.		
	Install Microsoft Robotics Developer Studio 4 to:		
	D: \Microsoft Robotics Dev Studio 4\	<u>C</u> hange	
	N .		
			4
InstallShield -			
	< Back Next >	Cancel	
	Ender Hower		



🖟 Microsoft Robotics Developer Studio 4 - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< <u>B</u> ack Install Cancel
Fig. 6: Start installation





Fig. 7: Installation is completed

2.2 Launch the Microsoft Virtual Simulation Environment to make sure the MRDS 4 is installed correctly.

Start \rightarrow All Programs \rightarrow Microsoft Robotics Developer Studio 4 \rightarrow Virtual Simulation Environment \rightarrow Entities

	Entities
×	Service started [03/15/2014 11:16:59][http://127.0.0.1:50000/directory]
×	Service started [03/15/2014 11:16:59][http://127.0.0.1:50000/constructor]
*	Service started [03/15/2014 11:16:53][http://121.0.0.1:50000/console/output]
No	physics hardware present, using software physics.
×	Service started [03/15/2014 11:17:11][http://127.0.0.1:50000/simulated1br3ar
m/3	304207fc-6ee8-49ca-90ce-9c320f09580b]
×	Generating shadow mesh for 4x4Wheel.obj.
×	Finished generating shadow mesh for 4x4Wheel.obj.
×	Generating shadow mesh for 4x4Body.obj. Finishad comparating shadow mask for UvUDadw shi
*	Finished generating shadow mesh for 4x4body.obj.
	∇

Fig. 8: Command window





Fig. 9: Visual Simulated Environment of Entities

You should see Fig. 9 displayed properly.

Note: .NET Framework 4.0 or higher is required. If it is not automatically installed, please download it from http://www.microsoft.com/net/downloads.

2.3 Exit from MRDS R4



2. <u>RESERVE COMMUNICATION PORT</u>

Step 3: Reserve the port 50000 for CoSpace Simulator

3.1 Launch "DSS Command Prompt"

Start \rightarrow Microsoft Robotics Dev R4 \rightarrow

Right click on "DSS Command Prompt" and "Run as administrator"



Fig. 10: DSS Command Prompt

3.2 Type the following command

D:\Microsoft Robotics Dev Studio 4>httpreserve /Force /x:127.0.0.1 /p:50000 /u:everyone

space

You will see the following reply

http://127.0.0.1:50000/ reserved.







3. COSPACE RESCUE SIMULATOR INSTALLATION

Step 4: Download CoSpace Rescue Simulator

http://cospacerobot.org/download/cospace-rescue-download

Unzip the installation file: CSR-Rescue2016-vvv.zip file.

Step 5: Install CoSpace Rescue Simulator

Right click on "CSR-Rescue2016-vvv.exe" and choose "Run as administrator".

CSR-Rescue2016-1	62.00	24/2/2016 1-31 DM Application
		Open
	۲	Run as administrator
		Troubleshoot compatibility
		Pin to Start

Note: Please uninstall the older version before the installation.

Step 6: Launch the Microsoft Virtual Simulation Environment to make sure the MRDS 4 is installed correctly.



6.1 Launch the CoSPace Simulator 2016

Fig. 12: CoSpace Robot Rescue Simulator

Note: If any error message has popped up at this stage, click on "OK" to continue and complete the installation.



6.2 You can check the Simulator version in the help file.



Select the CoSpace Control panel and press F1. A help file will be launched. The version of the simulator is indicated at the right bottom corner.



on your desktop after installation.

6.3 You should see the CoSpace Simulator icon

4. SERIAL CODE AND PLATFORM ACTIVATION

Step 7: Get the serial code: http://cospacerobot.org/download/registration. The serial code will be sent to you via email.

Step 8: Launch the CoSpace Robot Simulator and complete the registration. The CoSpace Robot Simulator is now activated.

Please note that you have to be connected to the Internet for the activation.

5. ADDITIONAL INFO FOR SSOE LAPTOP

You may wish to hide the "Microsoft Robotics Dev Studio 4" folder. Only the system administrator can perform this action.

Step 9: Add "CoSpace Robot Simulator Shortcut" on the desktop

- 9.1 Copy the "CsBot Simulator 2016.lnk" shortcut located on the current desktop to the path 'C:\ProgramData\Microsoft\Windows\Start Menu\Programs"
- 9.2 Copy the "CsBot Simulator 2016.Ink" short-cut located on the current desktop to the path "C:\Users\Public\Public Desktop"

This is to copy the CsBot Simulator shortcut to "start menu" and public desktop.

Step 10: To hide the "Microsoft Robotics Dev Studio 4" folder from D: drive.



Launch and Run as Administrator the "Command Prompt" and type in

attrib +s +h "D:\Microsoft Robotics Dev Studio 4"

attrib -s -h "D:\Microsoft Robotics Dev Studio 4"

To unhide the "Microsoft Robotics Dev Studio 4" folder from D: drive.



Fig. 13: Hide the MRDS R4 on D:\

Step 11: Logout from TA account and login with user account

Step 12: Launch the CoSpace Robot Simulator

If you encounter any problems during the installation, please refer to the FAQ. You can also contact us at support@CoSpaceRobot.org for technical assistance.